

## United States Department of the Interior

BUREAU OF INDIAN AFFAIRS Great Plains Regional Office 115 Fourth Avenue S.E. Suite 400 Aberdeen, South Dakota 57401



IN REPLY REFER TO: DESCRM MC-208

MAR 0 8 2012

#### **MEMORANDUM**

TO:

Superintendent, Fort Berthold Agency

FROM: Regional Director, Great Plains Region

SUBJECT:

Supplemental to Environmental Assessment

A Categorical Exclusion has been completed in compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended. The proposed Supplemental Categorical Exclusion is for information tiering off of an existing Environmental Assessment for Arrow Pipeline, to reroute a portion of Arrow-KOG Skunk Creek #13-18-17-16H pipeline system.

All the necessary requirements of the National Environmental Policy Act have been completed. Attached for your files is a copy of the Categorical Exclusion.

If you have any questions, please call Marilyn Bercier, Regional Environmental Scientist, Division of Environment, Safety and Cultural Resources Management, at (605) 226-7656.

#### Attachment

cc: Tex Hall, Three Affiliated Tribes (with attachment)
Elgin Crows Breast, THPO (with attachment)
Derek Enderud, BLM, Dickinson, ND (with attachment)
Mike Cook, SWCA (with attachment)
Jeffrey Hunt, Fort Berthold Agency



## United States Department of the Interior

BUREAU OF INDIAN AFFAIRS Great Plains Regional Office 115 Fourth Avenue S.E. Aberdeen, South Dakota 57401



IN REPLY REFER TO: DESCRM MC-208

#### **EXCEPTION CHECKLIST FOR BIA CATEGORICAL EXCLUSIONS**

Project: Arrow –KOG Skunk Creek #13-18-17-16H Pipeline Reroute Date: 3/7/2012

Skunk Creek #13-18-17-16H pipeline system. The reroute would occur exclusively within a previously analyzed approved corridor. The reroute would allow Arrow to transport oil, natural gas liquids, and produced water from the KOG Skunk Creek #13-18-17-16H well to market and approved disposal facilities. Disturbance would occur with a 40-foot-wide construction right-of-way but would remain wholly within an area which has been previously analyzed under NEPA and in which the same action was found to have no significant impact. The FONSI for original alignment and associated corridor was issued on January 25, 2012. This document is tiered to Environmental Assessment and Finding of No Significant Impact: Arrow Pipeline, LLC. Authorize Land Use for Pipelines Connecting the KOG Skunk Creek 13-18-17-16H and 13-18-17-16H3 Wells to the Existing Arrow Pha. 2 Southeast Pipeline (January 2012).  Exclusion category and number: 516 DM 10.5 F (1) Rights-of-Way  Evaluation of Exceptions to use of Categorical Exclusion:  1. This action would have significant adverse effects on public health or safety.  NoXYes  2. This action would have an adverse effect on unique geographical features, such as
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on unique geographical features, such as
wetlands, wild or scenic rivers, refuges,
floodplains, rivers placed on nationwide
river inventory, or prime or unique farmlands. No X Yes
river inventory, or prime or unique farmands.
3. The action will have highly controversial
environmental effects. No X Yes
4. The action will have highly uncertain
environmental effects or involve unique or
unknown environmental risks.  No X Yes Yes
5. This action will establish a precedent
for future actions. No X Yes Yes
6. This action is related to other actions with
individually insignificant, but cumulatively
significant environmental effects. No X Yes
7. This action will affect properties listed or eligible for listing in the National Register

10. This action will have a disproportionately high and adverse effect on low income or minority populations.

9. This action threatens to violate federal, state, local or tribal law or requirements imposed for

protection of the environment.

No <u>X</u> Yes\_\_\_\_

No X Yes\_\_\_\_

Page 2

11. This action will limit access to, and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners, or significantly adversely affect the physical integrity of such sacred sites.

No X Yes\_\_\_\_

12. This action will contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area, or may promote the introduction, growth, or expansion of the range of such species.

No X Yes\_\_\_\_

A "yes" to any of the above exceptions will require that an EA be prepared.

NEPA Action - - - CE X EA

Preparer's Name and Title: <u>Jeffrey Davis</u>, <u>Environmental Protection Specialist</u>

Regional Archeologist Concurrence with Item 7

Mey C. Janés

Date: 3-7-20/2

Regional Office/Agency Environmental Coordinator

Concur: MM Soylowte

Concui

Date: 3-8-12

Regional Director/Superintendent

## **Categorical Exclusion with Pertinent Analysis Documentation**

**United States Bureau of Indian Affairs** 

Great Plains Regional Office Aberdeen, South Dakota



#### Arrow Pipeline, LLC

Categorical Exclusion to Authorize Land Use for the Reroute of the Arrow KOG Skunk Creek 13-18-17-16H Pipelines

Fort Berthold Indian Reservation

March 2012

For information contact:
Bureau of Indian Affairs, Great Plains Regional Office
Division of Environment, Safety and Cultural Resources Management
115 4th Avenue SE, Aberdeen, South Dakota 57401
(605) 226-7656

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## **Appendix**

A Plats, Drawings, and Diagrams for the Proposed Skunk Creek 13-18-17-16H Pipelines

#### 1. Purpose and Need for the Proposed Action

The purpose of the proposed action is to authorize the land use by Arrow Pipeline, LLC (Arrow) for the construction and installation of a reroute to the approved, but incomplete, KOG Skunk Creek 13-18-17-16H pipelines (reroute). The reroute of the proposed pipelines would be located entirely within the previously analyzed and approved right-of-way (ROW) of the KOG Skunk Creek 13-18-17-16H pipelines and would transport oil, natural gas liquids, and produced water to markets and approved disposal sites.

Developments have been proposed on land held in trust by the United States in Dunn County, North Dakota. The Bureau of Indian Affairs (BIA) is the surface management agency for potentially affected tribal lands and individual allotments. The economic development of available resources and associated BIA actions are consistent with the BIA's general mission. Leasing and development of mineral resources offer substantial economic benefits to the Three Affiliated Tribes of the Mandan, Hidatsa, and Arikara Nations and to individual tribal members.

#### 2. Authorities

Oil and gas exploration and development activities are conducted under authority of the Indian Mineral Leasing Act of 1938 (25 United States Code [USC] 396a, et seq.), the Indian Mineral Development Act of 1982 (25 USC 2101, et seq.), and the Energy Policy Act of 2005 (42 USC 15801, et seq.).

## 3. Legal Land Description for Proposed Action

The reroute would be located on trust land originating from the approved KOG Skunk Creek pipelines, at a point in the NW¼ SW¼ of Section 24, Township (T) 148 North (N), Range (R) 93 West (W), 5<sup>th</sup> Prime Meridian (P.M.), Dunn County, North Dakota, and terminating at the Arrow Phase 2 Southeast Pipeline in the SE¼, NE¼ of Section 23, T148N, R93W, 5<sup>th</sup> P.M., Dunn County, North Dakota, approximately 11.5 miles southeast of Mandaree, North Dakota (Figure 1).

1

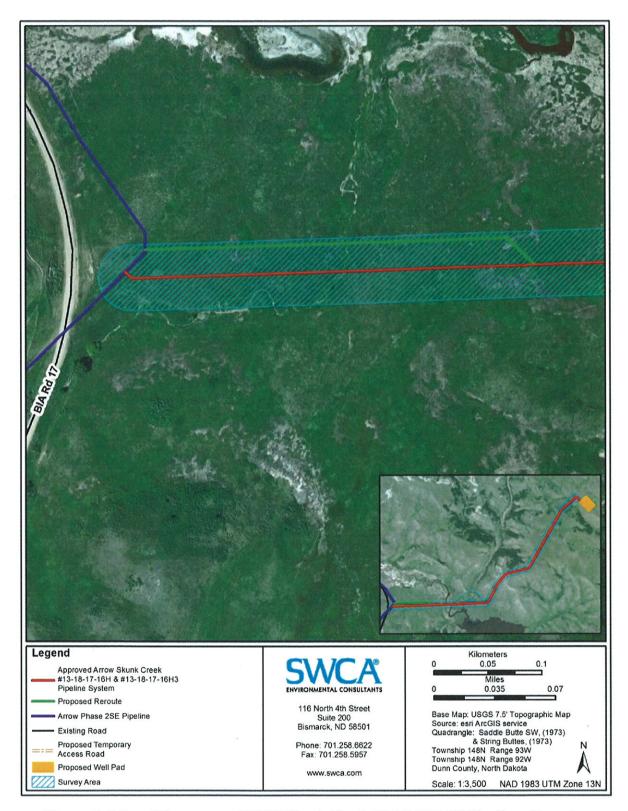


Figure 1. Map of the proposed KOG Skunk Creek 13-18-17-16H Pipelines Reroute.

#### 4. Materials Information and Corrosion Rates

#### **Steel Pipe**

Arrow proposes to construct the oil and gas pipelines, including the reroute, using new steel pipe rated by the American Petroleum Institute (API) as 5L X52. Arrow would ensure that each steel pipe segment is coated with approximately 14 to 16 millimeters of fusion bonded epoxy coating. Further, Arrow would deploy an active cathodic protection system for all steel pipe, which further reduces the likelihood of external corrosion. Arrow would ensure that each steel pipe segment is allotted a 1/16-inch corrosion allowance; however, because of the non-corrosive nature of Bakken crude and the low concentrations of hydrogen sulfide, Arrow does not anticipate any external or internal corrosion during the operating lifetime of the pipe, which, at a minimum, is estimated to be 50 years.

## Fiberspar® or Similar Pipe

Arrow proposes to construct the produced water pipeline, including the reroute, using a material known as Fiberspar or one with the same corrosion-resistant characteristics as Fiberspar. This type of material is not subject to internal or external corrosion.

#### 5. Pipeline Marking Procedures

Arrow adheres to the requirements of Title 49 Code of Federal Regulations (CFR) Part 192.707 with regard to the marking of buried pipelines. Specifically, Arrow would place pipeline markers within 1,000 feet of one another, at all public road crossings, railroad crossings, creek crossings, fence crossings, and at all points of major direction change.

## 6. Quality Control/Quality Assurance Measures

Arrow purchases steel pipe that is rated as API 5L X52 and inspects all pipe while at the mill to ensure quality. Arrow is also present to ensure that external epoxy coating is applied to a minimum thickness of 14 millimeters. During construction, all welds are visually inspected for quality and completeness by qualified professionals. Once welds have passed visual inspection, they are subjected to 100 percent non-destructive testing. After passing these tests, the weld areas are covered for corrosion protection. After the weld areas have been covered, the external coating of the pipe is inspected using a jeepmeter to detect holes and cracks. The pipe is lowered into the trench and buried. Prior to being put into service, the steel pipe is hydrotested to approximately 1.5 times the minimum design pressure of 1,180 pounds per square inch gauge.

#### 7. Valve Locations

Two valves would be installed at each end of the proposed pipeline. One valve would be installed at the well location while the second valve would be installed at the proposed tie-in. The installation of two valves would allow Arrow to isolate the proposed pipeline if required.

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#### 8. Reclamation

#### Interim Reclamation

Reclamation would continue to occur over the life of the pipeline. Initial reclamation would be required after initial construction and then following any maintenance work or additions of infrastructure. Reclamation would be required before final abandonment of the decommissioned pipeline. Successful reclamation would at all times be the responsibility of the system's operator.

Trenches would be back-filled immediately after the pipe is installed and testing is complete, assuming frozen or saturated soils are not present. Back-fill piles would be stored opposite of the topsoil piles during construction. If construction occurs during winter, Arrow would partially fill the trench with useable, non-frozen, back-fill soil to the extent possible and cover the entire ROW including the trench with straw. The trench would be back-filled and topsoil distributed as soon as practicable after the soil has defrosted. Topsoil piles would be covered to eliminate the potential for rill erosion and subsequent loss of soil during spring snow melt and precipitation events.

Applicable short- and long-term best management practices would be used to minimize and control erosion in disturbed areas. To reduce compaction, the ROW would be plowed before the stockpiled topsoil is distributed.

The disturbed areas would be reclaimed and contoured as soon as possible after construction is complete (fall/spring). The ROW would be covered with stockpiled topsoil and seeded with a seed mixture determined by the BIA. Arrow would control noxious weeds within the ROW and other applicable facilities by approved chemical or mechanical methods. If seeding of the ROW does not occur due to growing season constraints, Arrow would deploy approved weed-free hay across the entire ROW. The presence of hay across the ROW would reduce the potential for excessive erosion as a result of spring snow melt and precipitation.

The entire ROW would be monitored for erosion, subsidence, and noxious weeds. In areas where problems are found to occur, reclamation efforts would continue until the BIA feels the ROW is successfully reclaimed. Reclamation is considered successful when:

- seeded areas are established;
- adjacent vegetative communities spread back into the disturbed areas; and
- noxious weeds are under control.

If after two growing seasons the new seeding is not successful, the BIA may require additional efforts to establish vegetation. The BIA has developed a weed management plan to treat known or likely to occur noxious weed species.

#### Final Reclamation

Final reclamation would occur when the pipeline is decommissioned. All disturbed areas would be reclaimed, reflecting the BIA's view of oil and gas exploration and production as temporary intrusions on the landscape. All facilities would be removed; however it is economically and environmentally unfeasible to excavate and remove the decommissioned pipelines. Instead, the pipelines would be purged with water of any natural gas remaining in the lines and abandoned in place.

## 9. Applicable NEPA Document(s)

Environmental Assessment and Finding of No Significant Impact: Arrow Pipeline, LLC. Authorize Land Use for Pipelines Connecting the KOG Skunk Creek 13-18-17-16H and 13-18-17-16H3 Wells to the Existing Arrow Phase 2 Southeast Pipeline (January 2012).

## 10. NEPA Adequacy Criteria

This document has identified the above-mentioned previously prepared NEPA document, which adequately describes the environmental consequences of the newly proposed action described herein and meets the following NEPA Adequacy Criteria.

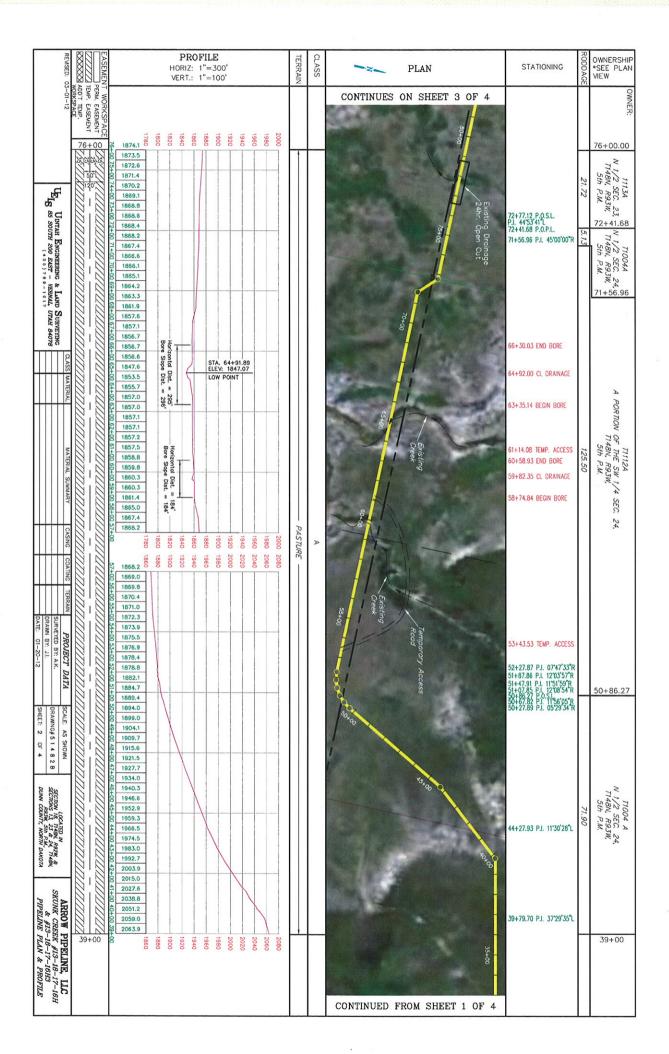
- 1. The proposed action is substantially the same action and at the site specifically analyzed in the existing NEPA document.
- 2. The range of alternatives is reasonable with respect to the current proposed action in the existing NEPA document, which appropriately considers and analyzes current environmental concerns, interests, and resource values.
- 3. The existing analysis and conclusions are adequate in the existing NEPA document. The analysis is still valid in light of new studies or resource assessment information.
- 4. The methodology and analytical approach used in the existing NEPA document continues to be appropriate for the proposed action.
- 5. The direct and indirect impacts of the proposed action are unchanged from those identified in the existing NEPA document.
- 6. The cumulative impacts that would result from implementation of the proposed action are unchanged from those analyzed in the existing NEPA document.
- 7. A 30-day comment period involving public input and interagency review was used in the development of the existing NEPA document.

## **APPENDIX A**

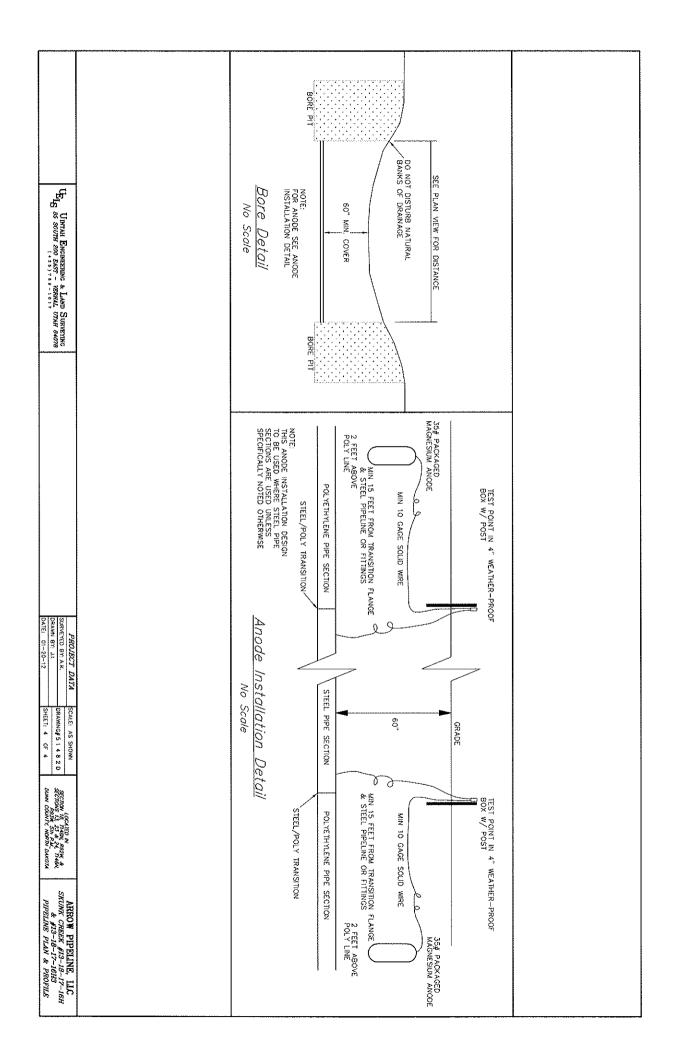
Plats, Drawings, and Diagrams for the Arrow KOG Skunk Creek 13-18-17-16H Pipelines

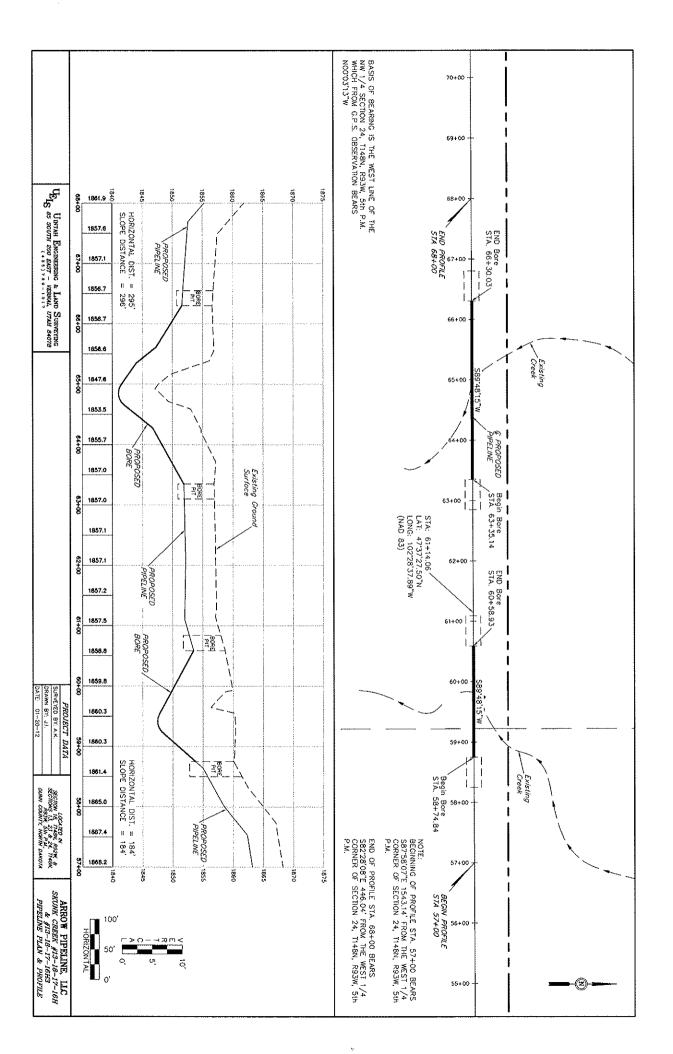
Categorical Exclusion Fort Berthold <u>Arrow –KOG Skunk Creek #13-18-17-16H Pipeline Reroute</u>

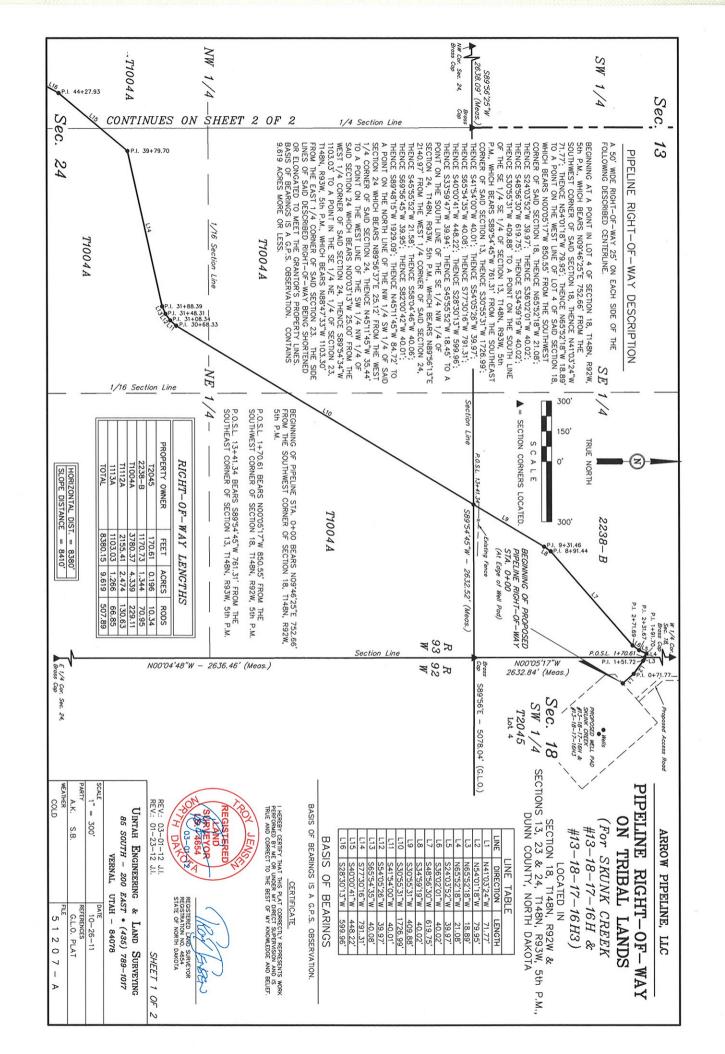
EASEMEN	PROFILE HORIZ: 1"=300' VERT.: 1"=100'	TERRAIN	CLASS	PLAN	STATIONING	RODDAGE	OWNERSHIP *SEE PLAN VIEW
TWORKSPACE   Control 24-00 3	2063.9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	IN PASTURE -	A	CONTINUES ON SHEET 2 OF 4	31+88.39 P.I. 11'35'41"R 31+48.31 P.I. 11'49'03'R 31+08.34 P.I. 211'25'R 30+68.33 P.I. 10'58'29'R	35.07	OWNER:  OWNER:  N 1/2 SEC. 24, 11/48N, R93W, 5th P.M.
	2047.7 2048.0 2049.5 2051.2 2052.8 2056.2 2056.2 2056.6 2057.2 2052.8 2046.3 2046.7 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2048.3 2048.8 2028.9 2021.9 2021.9 2015.0 2008.1 2001.2 1994.6 1987.9 1992.3 1997.5 2002.5 2004.2 2004.2 2004.9 2007.7 2009.7			Existing Fence  BEGINNING OF PROPOSED PIPELINE  RIGHT-OF-WAY  (STA. 0+00)  Existing Well Pad  STA: 18-17-16H  & #13-18-17-16H	13+41.34 P.O.S.L. 13+10.59 FENGE 9+31.46 P.I. 04'03'48'L 8+91.14 P.I. 13'57'11'L 2+71.69 P.I. 12'54'29'R 2+31.67 P.I. 11'58'09'R 1+90.67 P.I. 11'58'09'R 1+0.67 P.I. 11'51'00'L 0+71.77 P.I. 12'57'54'L	70.95	2238-B  SE 1/4 SE 1/4 SEC 13  THBN, R93W  THBN, R93W

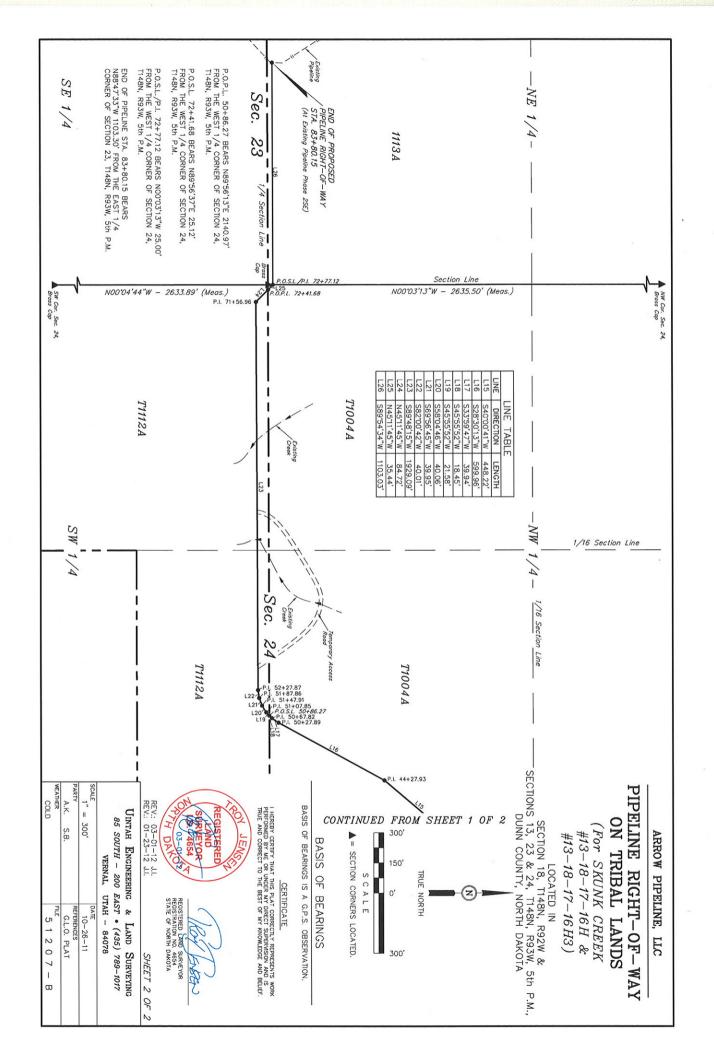


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# ARROW PIPELINE, LLC SKUNK CREEK #13-18-17-16H & #13-18-17-16H3 PIPELINE RIGHT-OF-WAY SECTION 18, T148N, R92W, & SECTIONS 13, 23 & 24, T148N, R93W, 5th P.M.

#### TOTAL PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 8380.15' OR 1.587 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 9.619 ACRES MORE OR LESS.

## ENGINEER'S AFFIDAVIT

STATE OF MONTANA )
COUNTY OF RICHLAND )

TROY JENSEN, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR ARROW PIPELINE, LLC, THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE PIPELINE RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 1.587 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

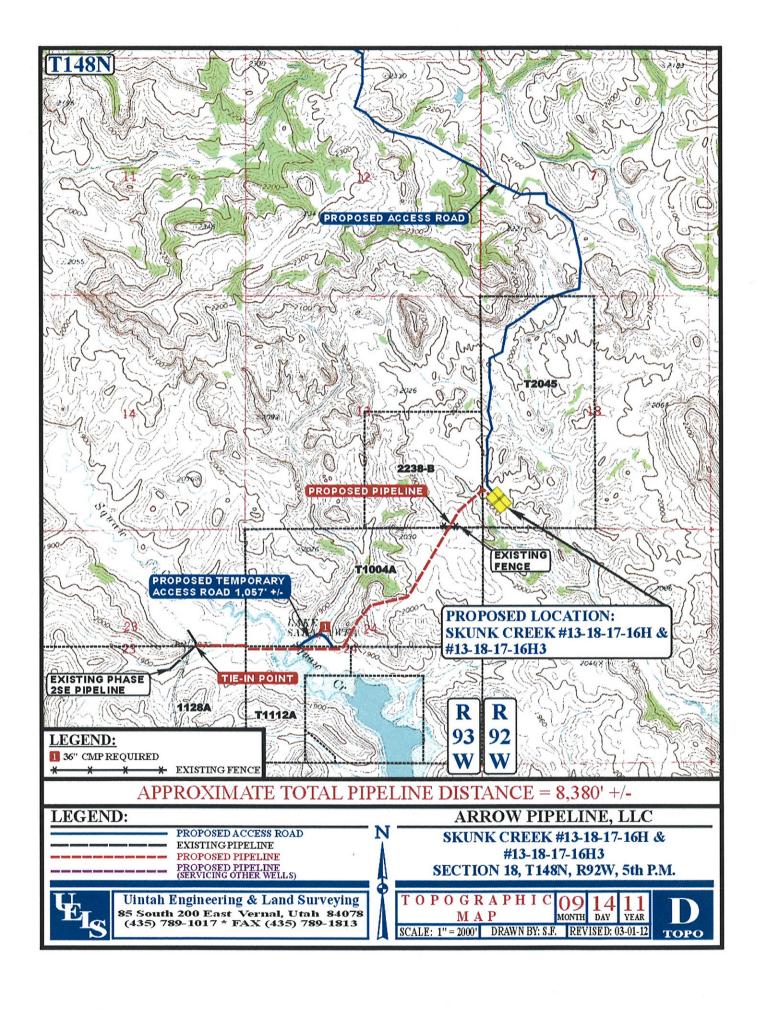
## APPLICANT'S CERTIFICATE

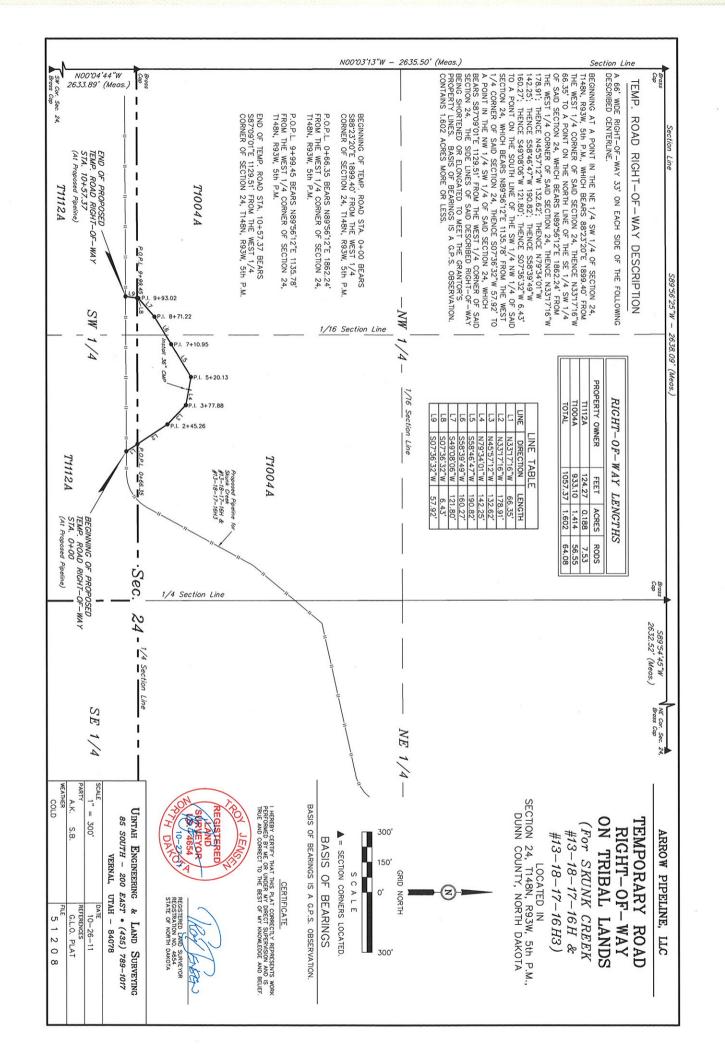
I, JOHN M. DOLAN, DO HEREBY CERTIFY THAT I AM THE V.P. OF ENGINEERING FOR ARROW PIPELINE, LLC, HEREINAFTER DESIGNATED THE APPLICANT; THAT TROY JENSEN WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS PIPELINE RIGHT—OF—WAY, 1.587 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 83+80.15, THAT SAID PIPELINE RIGHT—OF—WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT—OF—WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT—OF—WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT—OF—WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

**APPLICANT** 

V.P. OF ENGINEERING

TITLE





## ARROW PIPELINE, LLC SKUNK CREEK #13-18-17-16H & #13-18-17-16H3 TEMPORARY ROAD RIGHT-OF-WAY SECTION 24, T148N, R93W, 5th P.M.

#### TOTAL TEMPORARY ROAD RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 1057.37' OR 0.200 MILES. WIDTH OF RIGHT-OF-WAY IS 66' (33' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 1.602 ACRES MORE OR LESS.

## ENGINEER'S AFFIDAVIT

STATE OF MONTANA )
COUNTY OF RICHLAND )

TROY JENSEN, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR ARROW PIPELINE, LLC, THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE TEMPORARY ROAD RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.200 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

## APPLICANT'S CERTIFICATE

I, JOHN M. DOLAN, DO HEREBY CERTIFY THAT I AM THE V.P. OF ENGINEERING FOR ARROW PIPELINE, LLC, HEREINAFTER DESIGNATED THE APPLICANT; THAT TROY JENSEN WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS TEMPORARY ROAD RIGHT-OF-WAY, 0.200 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 10+57.37, THAT SAID TEMPORARY ROAD RIGHT-OF-WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

**APPLICANT** 

V.P. OF ENGINEERING

TITLE